

*The Massachusetts Department of Energy Resources presents*

## ***ENERGIZING YOUR CLASSROOM***

**August 19, 2009**

**8:00 AM – 5:00 PM**

**Best Western Royal Plaza Hotel & Trade Center**

**181 Boston Post Road West**

**Marlborough, MA**

The Massachusetts Department of Energy Resources, NGRID, NSTAR, NUS, the Cape Light Compact and NEED have partnered to provide teachers statewide with curriculum and resources at the upcoming **Massachusetts Energy Workshop for Teachers** to be held **August 19, 2009** at B.W. Royal Plaza Hotel & Trade Center, 181 Boston Post Road West, in Marlborough.

This workshop presents a unique opportunity for classroom teachers (K-12) to learn about energy in a fun and exciting way! Why participate in this workshop? Learning about energy -- and teaching about energy -- is vital to the future. This workshop provides valuable resources and training to teach energy in the classroom while meeting state education standards. NEED materials are designed to provide educators with the background and hands-on lessons needed to educate and energize students, encouraging an understanding of energy that is shared with their peers and their families.

Thanks to the support of Massachusetts Department of Energy Resources, NGRID, NSTAR, NUS, and the Cape Light Compact there is **no cost** to attend the workshop. Breakfast, lunch and parking will be provided.

The NEED Project includes teacher-tested educational materials, evaluation techniques and tools, recognition of student achievement, and professional development for educators. NEED materials and training programs provide comprehensive, objective information about the scientific concepts of energy and the sources of energy, their use and their impact on the environment, the economy and society. All NEED learning activities are correlated to Massachusetts science standards. The program will make teaching energy exciting and fun in your classroom.

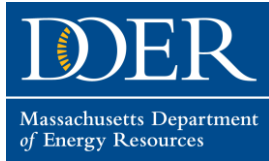
### **How to register for the workshop:**

Register online by August 10, 2009 at [www.regonline.com/needmarlborough](http://www.regonline.com/needmarlborough)

*Confirmation and additional information will be sent via email after registration. Please make sure your email will allow email from need.org.*

**Questions? Contact us at 1-800-875-5029 or via fax 1-800-847-1820, or by e-mail at [info@need.org](mailto:info@need.org).**

NEED is an approved provider of professional development. (Eight PDPs available)



**Agenda**  
**Massachusetts Energy Workshop for Teachers**  
**B.W. Royal Plaza Hotel & Trade Center, 181 Boston Post**  
**Road West, in Marlborough**  
**August 19, 2009**



- 7:30 a.m. Registration**  
Pick up curriculum materials and supplies and network during breakfast. NEED curriculum kits are sponsored for each teacher attending the workshop. Play Energy Bingo!
- 8:00 a.m. Welcoming Program – Welcome from the Sponsors**  
Meet your fellow participants. Review goals and objectives for the workshop and begin planning ways to use the NEED materials and training in your school.
- 8:30 a.m. The Science of Energy**  
Learn more about the forms of energy and energy transformations while experimenting with the Science of Energy kit.
- 10:15 a.m. Break**
- 11:00 a.m. Energy Resources: 101 – Energy Enigma**  
After learning about the Science of Energy, participants will begin studying the sources of energy. What are they? Where do they come from? How do we use each of the 10 sources of energy?
- 12:00 p.m. Lunch and Speaker**
- 1:00 p.m. Solar and Wind Energy Sessions (Concurrent)**
- 3:00 p.m. Energy Conservation for Home and School**  
Smart energy use at home and at school reduces energy consumption and conserves valuable energy resources. These math and research lessons are useful for all grade levels. Activities to understand the carbon cycle and climate change are included in these lessons.
- 4:00 p.m. Q&A, Evaluation and Wrap-up**
- 4:30 p.m. Adjourn and Reception**

**This workshop is sponsored by:**

**NGRID, NSTAR, NUS, and the Cape Light Compact**